1. Scope

This specification applies to the Vibration motor of 6CH-1201WL-00 of Namiki Precision Jewel Co.,Ltd.

2. Standard Operation and Conditions

2-1	Rated Voltage	: 1.3v DC
2-2	Rated Torque	: Counter weight (R3.0 x 4.63 x 180°) Specific Gravity of 18g/cc
2-3	Rated Speed	: 7500 +/- 2000 rpm
2-4	Rated Current	: 80 mA max.
2-5	Direction of Rotation	: CW when (+) is applied to red-lead
2-6	Position of Motor	: Regardless of output shaft direction

* Above measurements apply at 25°C, relative humidity of 65%.

3. Mechanical Structures

3-1	Appearance	: Should be free of cracks, rust, stain or dents.
3-2	Weight	: approximately 2.6g
3-3	End play of shaft	: 0.03mm ~ 0.2mm

4. Electrical Specifications

4-1	Rated Speed	: 7500 +/- 2000 rpm
4-2	Rated Current	: 80 mA max.
4-3	Min. starting voltage	: 0.8 v max
4-4	Starting Current	: 120 mA Nominal
4-5	Armature Resistance	: 11 +/- 1 ohms
4-6	Insulation Resistance	: 1 M ohms min.
4-7	Withstanding Voltage	: DC250v between lead/housing case for 2 sec. The leakage current shall not exceed 1mA peak.

5. Life

: Perform tests by undermentioned conditions and judge deterioration of motor by stated below.

5-1 8 sec on, 52 sec off, @ 1.3v under temp cycles of 60°C/RH90% for 2H and -10°C for 2H, total of 140 hours.

5-2 8 sec on, 52 sec off, @ 1.3v under 40°C/RH15% dry condition for total 96H.

* Definition of Life : Speed shall not exceed +50%/-30% from the initial value after performed any of above ALT stated 5.
Current shall not exceed +30% from the initial value after performed any of above ALT stated 5.

5. Environmental Specifications

Motor satisfies the characteristics specified here in this specification after exposure in the environmental tests specified in 5-1.

5-1-1 Vibration
Motor withstands 1.52mm amplitude over frequency of 50 Hz for 1 minute in each of X, Y, axis.

5-1-2 Drop Shock
Motor satisfies the initial values after performed 2 meter high drop shock twice each of X, Y, Z axis mounted on 120g of drop shock fixture.

5-1-3 Operating Temperature
$-20°C \sim +70°C$

5-1-4 Storage Temperature
Motor satisfies the initial values after exposure to -40°C to +85°C for each of 48 hours and returned to room condition for 24 hours.

5-1-5 Humidity
Motor satisfies the initial value after exposure to +40°C relative humidity of 90% for 96 hours.

6. Cautions

6-1 Storage
Avoid storing in corrosive gas environment such as H_2S, SO_2, NO_2, Cl_2 etc or, substances such as organic silicon, cyanide, formalin, or phenol compounds that may emit toxic gasses. Motors may get serious damages. Not to be stored without running more than 6 months.

6-2 Locked Operation
Motors may get overheated or fail if operated with rotor locked condition or under excessive loads continuously.

6-3 Condensation
Condensation on electric circuits may damage motor or control circuit. Monitoring environment and undertaking measurement for prevention and condensation sensor to actuate power-off when needed is recommended.

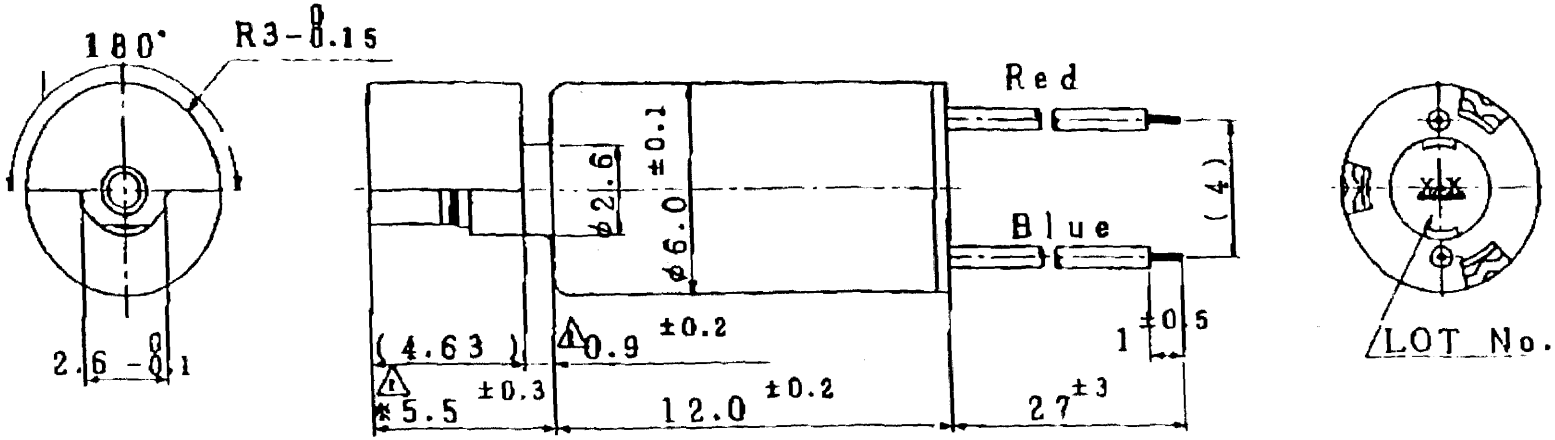
6-4 others
Do not disassemble or subject to shock.

7. Notes

7-1 Namiki guarantees one year from purchase date however repair charge will be required even in warranty period if damages are caused by mishandling or abuse usage.

7-2 Material, construction or manufacturing process may be changed within category of this specifications without advance notice.

	revisions	date	DRW.	CHK.
user part number		APPD.	CHK.	DRW.
Namiki P/N	4.2CH-1001WL-L-02			
Date of approval				
Enforcement date				



NOTE 1) Marked(*) is counterweight length measured when it is pushed to motor side.

2) Lot No. is indicated as below.
(Any side available for marking.)

(EX.) 6 -C

- month (A=Jan. B=Feb. ···)
- "-" means production at Thailand factory.
- year (1996)

TOLERANCE			
DIMENSION(●)		ANGLE	
		±1°	
MATERIAL	FINISH	QTY.	
DRWN. KAWAI	CHK. SUDOU	DSGN. MORITA	APP. YOSHI

		M.I.S	FILE No. 96-0135
QTY.	DATE	REVISION	
SCALE	5/1	TYPE	6CH-1201WL-00
UNIT	1/1mm	TITLE	OUTLINE DRAWING
DWG. NO.	D056154-01		
REMARK			